

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A nanomaterial composition of matter comprising zinc; and at least one metal other than zinc, wherein the at least one metal comprises an element, that a) has an oxidation state higher than an oxidation state of zinc and b) dopes zinc in the nanomaterial composition, and wherein the composition of matter has an electrical conductivity greater than 0.0001 mhos.cm.
2. (Currently Amended) The nanomaterial composition of matter of claim 1, wherein the at least one metal ~~composition~~ comprises aluminum.
3. (Original) The nanomaterial composition of matter of claim 1, wherein the electrical conductivity is greater than 0.01 mhos.cm.
4. (Original) The nanomaterial composition of matter of claim 1, wherein the nanomaterial comprises particles with an aspect ratio greater than 1.
5. (Original) The nanomaterial composition of matter of claim 1, wherein the nanomaterial comprises non-spherical particles.
6. (Withdrawn) A coating comprising the nanomaterial composition of matter of claim 1.

7. (Withdrawn) A transparent conductive layer comprising the nanomaterial composition of matter of claim 1.
8. (Withdrawn) An electrode comprising the nanomaterial composition of matter of claim 1.
9. (Withdrawn) A product comprising the nanomaterial composition of matter of claim 1.
10. (Withdrawn) A device comprising the nanomaterial composition of matter of claim 1.
11. (Withdrawn) A method for preparing a composition of matter comprising providing nanoparticles of a first composition comprising zinc; and reacting the nanoparticles with a reagent wherein the reacting creates a second composition that is different from the first composition.
12. (Withdrawn) The method of claim 11, wherein the first composition comprises particles with an aspect ratio greater than 1.
13. (Withdrawn) The method of claim 11, wherein the first composition further comprises oxygen.
14. (Withdrawn) The method of claim 11, wherein the reagent comprises nitrogen.

15. (Withdrawn) The method of claim 11, wherein the reagent comprises a halogen.
16. (Withdrawn) The method of claim 11, wherein the reagent comprises an acid or an alkali.
17. (Withdrawn) The method of claim 11, wherein the reagent comprises hydrogen.
18. (Withdrawn) The method of claim 11, wherein the reagent comprises oxygen.
19. (Withdrawn) The method of claim 11, wherein the reagent comprises carbon.
20. (Withdrawn) A product comprising the composition of matter prepared using the method of claim 11.